From 3160-3 (March 2012) UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT POBE Software Software Software Lisses Serial M. Department of The INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER I I' Unit're CArgreeniam. Name and No. 1a. Type of work: DRILL REENTER I I' Unit're CArgreeniam. Name and No. I I' Unit're CArgreeniam. Name and No. 1a. Type of work: DRILL REENTER I I' Unit're CArgreeniam. Name and No. 1b. Type of work: DRILL REENTER I I' Unit're CArgreeniam. Name and No. 1b. Type of work: DRILL REENTER I I' Unit're CArgreeniam. Name and No. 1a. Address DOB PARTON COMPANY LLC 9. API' Weil No. NARATAT PEDERAL. 001 2. Name of Operator ROSEHILL OPERATING COMPANY LLC 9. API' Weil No. NARATAT PEDERAL. 001 3a. Address 16200 Park Row, SIs 300 Houston TX 77094 3b. Phone No. (auduit' are a codd) 10. Field and Pool, or Explorator; Listener, MUSS / 2006 FNL / 1156 FEL / LAT 32.0595139 / LONG - 103.3334956 11. Sec. T. M. or Bik and Survey or Area 14. Distance from proposed 20. for an asset town or post office / 1156 FEL / LAT 32.0595139 / LONG - 103.3334956 12. County or Parish 13. State 15. Distance fin mites and direction from assets town or post officet<	Carlshad	Field Offic	e	11111
1a. Type of work: DRILL REENTER 7. If Unit of CA Agreement, Name and No. 1b. Type of Well: Oh Well Gas Well Other INJ-DIS Single Zone Multiple Zone NNATATA FEDERAL.001 2. Name of Operator ROSEHILL OPERATING COMPANY LLC 9. API Well-No. NNATATA FEDERAL.001 9. API Well-No. 3a. Address 16200 Park Row, Ste 300 Houston TX 77084 3b. Phone No. (include area codd) 10. Field and Pool, or Exploratory. CHERRY CREEN JUL) CHERAT. 4. Location of Well (Report location clearly and in acordance with any State requirements.*) 11. Sec. 71. R. M. or Bill. and Survey or Area 5. Distance from proposed* 200 FPL / 1156 FEL / LAT 32.0595139 / LONG =103.3334856 11. Sec. 71. R.M. or Bill. and Survey or Area 14. Distance from proposed* 230 feet 12. County or Parish 13. State 15. Distance from proposed* 230 feet 1240 0 16. No of dares in location fue distars. ft. 230 feet 1240 0 18. Distance from proposed find, uniting, fawy) 19. Proposed Depth 23. Estimated duration 30 days 18. Distance from proposed find, uniting, fawy) 19. Proposed Depth 24. Attachments 21. Estimated duration 3052 feet 0 foreation centification	3160-3 OCU) Hobbs		B No. 1004-0137
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ROSEHILL OPERATING COMPANY LLC 30-3-5-5-444003 a. Address 16200 Park Row, Ste 300 Houston TX 77084 3b. Phone No. (include area code) (281)675-3420 10. Field and Pool, or Exploratory. CLERRY-OREEN 100. (include area code) (281)675-3420 10. Field and Pool, or Exploratory. CLERRY-OREEN 100. (include area code) (281)675-3420 A cotation of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec. T. R. M. or Bik. and Survey or Area At surface SWSW / 2006 FNL / 1156 FEL / LAT 32.0595139 / LONG -103.3334856 SEC 11 / T26S / R35E / NMP I. Distance in miles and direction from nearest town or post office* 12. County or Parish LEA 13. State NM B. Distance from proposed ⁴ location to nearest property or lease line, fl. to enearest well, dilling, completed, 30 feet applied for, on this lease, fl. 19. Proposed Depuil 20. BLMBIA Bond No. on file 7500 feet / 7500 feet		Single Zone Multip	ple Zone / NKATATA FEDE	
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At surface SWSW / 2006 FNL / 1156 FEL / LAT 32.0595139 / LONG -103.3334856 SEC 11 / T26S / R35E / NMP At proposed prod. zone SWSW / 2006 FNL / 1156 FEL / LAT 32.0595139 / LONG -103.3334856 SEC 11 / T26S / R35E / NMP 4. Distance in miles and direction from nearest town or post office* 12. County or Parish LEA 13. State NM 5. Distance from proposed* 16. No. of acres in lease 17. Spacing Unit dedicated to this well 0 0 1. Also to nearest drag. unit line, if any) 19. Proposed Depth 20. BLM/BLA Bond No. on file FED: NMB001484 8. Distance from proposed location* 19. Proposed Depth 20. BLM/BLA Bond No. on file FED: NMB001484 14. Elevations (Show whether DF, KDB, RT, GL, etc.) 06/02/2016 22. Approximate date work will start* 23. Estimated duration 30 days 3052 feet 24. Attachments 4. Bond to cover the operations unless covered by an existing bond on file (see Imm 20 above). 5. Operator certification 6. Such other site specific information and/or plans as may be required by the BLM. 5. Signature Name (Printed/Typed) Date 01/11/2018 01/11/2018 itle Name (Printed/Typed) Date 05/16/2018 05/16/2018			CHERRY CREE	R JWD; CHENNYC
4. Distance in miles and direction from nearest town or post office* 12. County or Parish LEA 13. State NM 5. Distance from proposed* location to nearest 230 feet property or lease line, f. (Also to nearest arguint line, if any) 16. No, of dcres in lease 1240 17. Spacing Unit dedicated to this well 0 9. Distance from proposed to nearest well, drilling, completed, 30 feet applied for, on this lease, ft. 19. Proposed Depth 7500 feet 12. County or Parish 1240 17. Spacing Unit dedicated to this well 0 9. Distance from proposed contraction * to nearest well, drilling, completed, 30 feet applied for, on this lease, ft. 19. Proposed Depth 7500 feet 20. BLM/BLA Bond No. on file FED: NMB001484 Elevations (Show whether DF, KDB, RT, GL, etc.) 06/02/2018 24. Attachments 30 days 14. Bold to cover the operations and/or plans as may be required by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). 14. Bond to cover the operations and/or plans as may be required by the BLM. 5. Signature (Electronic Submission) Name (Printed/Typed) Lara Thompson / Ph: (505)254-1115 Date 01/11/2018 18 Assistant Project Manager proved by (Signature) (Electronic Submission) Name (Printed/Typed) Cody Layton / Ph: (575)234-5959 Date 05/16/2018	At surface SWSW / 2006 FNL / 1156 FEL / LAT 32.0595139	9 / LONG -103.3334856	SEC 11 / T26S /	
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	oved by (Signature)		234-5959	
Supervisor Multiple Resources CARLSBAD	ervisor Multiple Resources	Office CARLSBAD		
pplication approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to onduct operations thereon./ onditions of approval, if any, are attached.	ict operations thereon.	gal or equitable title to those righ	its in the subject lease which woul	d entitle the applicant to
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United tates any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	8 U.S.C. Section 100) and Title 43 U.S.C. Section 1212, make it a crime any false, fictitious or fraudulent statements or representations as to an	e for any person knowingly and v ny matter within its jurisdiction.	willfully to make to any departmer	it or agency of the United

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INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Féderal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

The Privacy Act of 1974 and regulation in 43 CFR 2:48(d) provide that you be furnished the following information in connection with information required by this application.

NOTICES

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts. ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to-civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

(Form 3160-3, page 2)

Approval Date: 05/16/2018

Additional Operator Remarks

Location of Well

1. SHL: SWSW / 2006 FNL / 1156 FEL / TWSP: 26S / RANGE: 35E / SECTION: 11 / LAT: 32.0595139 / LONG: -103.3334856 (TVD: 10 feet, MD: 0 feet) PPP: SWSW / 330 FSL / 790 FWL / TWSP: 26S / RANGE: 35E / SECTION: 11 / LAT: 32.0514343 / LONG: -103.3442896 (TVD: 12315 feet, MD: 12315 feet) BHL: SWSW / 2006 FNL / 1156 FEL / TWSP: 26S / RANGE: 35E / SECTION: 11 / LAT: 32.0595139 / LONG: -103.3334856 (TVD: 7500 feet, MD: 7500 feet)

BLM Point of Contact

Name: Priscilla Perez Title: Legal Instruments Examiner Phone: 5752345934 Email: pperez@blm.gov

Review and Appeal Rights

1800

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

19.00

Approval Date: 05/16/2018

FAFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Application Data Report

05/16/2018

APD ID: 10400025877

Operator Name: ROSEHILL OPERATING COMPANY LLC

Well Name: NKATATA FEDERAL

Well Type: INJECTION - DISPOSAL

Submission Date: 01/11/2018

Contract?

Well Number: 001 Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID:	10400025877	Tie to previous NOS?	10400022931	Submission Date: 01/11/2018
BLM Office:	CARLSBAD	User: Lara Thompson	Title:	Assistant Project Manager
Federal/Indi	an APD: FED	Is the first lease penetr	ated for productio	n Federal or Indian? FED
Lease numb	er: NMNM012280	Lease Acres: 1240		
Surface acc	ess agreement in place?	Allotted?	Reservation :	
Agreement i	n place? NO	Federal or Indian agree	ement:	
Agreement I	number:			
Agreement I	name:			
Keep applic	ation confidential? YES			
Permitting A	gent? YES	APD Operator: ROSEH	ILL OPERATING C	OMPANY LLC
Operator let	ter of designation:			

Operator Info

Operator Organization Name: ROS	EHILL OPERATING COMPANY LLC	
Operator Address: 16200 Park Row	v, Ste 300	7: 77004
Operator PO Box:		Zip: 77084
Operator City: Houston	State: ⊤X	
Operator Phone: (281)675-3420		
Operator Internet Address: afranco	@rosehillres.com	

Section 2 - Well Information

Well in Master Development Plan? NO	Mater Development Plan name:	
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: NKATATA FEDERAL	Well Number: 001	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: CHERRY CREEK	Pool Name:
Is the proposed well in an area containing other mine	ral resources? USEABLE WATE	ર

Well Name: NKATATA FEDERAL

Well Number: 001

Describe other minerals: Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance? Multiple Well Pad Name: Type of Well Pad: SINGLE WELL Number: Well Class: VERTICAL Number of Legs: 1 Well Work Type: Drill Well Type: INJECTION - DISPOSAL **Describe Well Type:** Well sub-Type: INJECTION - DISPOSAL Describe sub-type: Distance to lease line: 230 FT Distance to town: Distance to nearest well: 30 FT Reservoir well spacing assigned acres Measurement: 0 Acres Nkatata_Federal_SWD__1_Package_20171228110526.pdf Well plat: Nkatata_Federal_001_20180102095033.pdf Nkatata_SWD_001_Ownership_Map_1mi_radius_20180102161200.pdf Well work start Date: 06/02/2018 Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number:

Vertical Datum: NAVD88

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	QW	۵۸۲
SHL Leg #1	200 6	FNL	115 6	FEL	26S	35E	11	Aliquot SWS W	32.05951 39	- 103.3334 856	LEA	NEW MEXI CO	NEW MEXI CO		NMNM 012280	305 2	0	0
KOP Leg #1	230	FSL	790	FWL	26S	35E	11	Aliquot SWS W	32.05115 93	- 103.3442 896	LEA	NEW MEXI CO			NMNM 012280	- 895 1	120 03	120 03

Well Name: NKATATA FEDERAL

Aliquot/Lot/Tract Lease Number EW Indicator NS Indicator -ongitude Elevation EW-Foot Meridian ease Type NS-Foot Latitude Section County Range Twsp State 2 Z QM PPP 330 FSL 790 265 35E 111 Aliquot LEA FWL 32.05143 NEW NEW lF NMNM 123 123 MEXI MEXI 012280 926 43 103.3442 15 15 Leg SWS 896 CO co 3 W #1 Aliquot EXIT 330 FNL 790 FWL 26S 35E 11 32.06413 LEA NEW NEW F NMNM 169 169 MEXI MEXI 012280 2 103.3443 139 95 95 Leg NWN 002 co co 43 W #1 35E 11 Aliquot BHL 200 FNL 115 FEL 26S 32.05951 LEA NEW NEW F NMNM 750 750 103.3334 MEXI MEXI 012280 444 39 0 6 6 sws 0 Leg co 856 CO 8 W #1

Well Number: 001

1

FMSS	Dtilling Plan	Data Report
U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		05/16/2018
APD ID: 10400025877	Submission Date: 01/11/2018	Highlighted data reflects the most
Operator Name: ROSEHILL OPERATING	COMPANY LLC	recent changes
Well Name: NKATATA FEDERAL	Well Number: 001	Show Final Text
Well Type: INJECTION - DISPOSAL	Well Work Type: Drill	

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	RUSTLER	3064	760	760		NONE	No
2	TOP SALT	1923	1140	1140		NONE	No
3	LAMAR	-2033	5096	5096		OIL	No
4	BELL CANYON	-2097	5161	5161		OIL	No
5	CHERRY CANYON	-3308	6372	6372		OIL	No
6	BRUSHY CANYON	-4550	7614	7614		OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 18000

Equipment: See attachments titled Rosehill Drilling Equipment Description, wellhead diagram, Choke Hose Test Certificate, Proposed WBD

Requesting Variance? YES

Variance request: Variance is requested to use a co-flex line between the BOP and choke manifold instead of using a 4" OD steel line. Variance is also requested to use a 5,000 psi WP annular preventer.

Testing Procedure: All BOPE will be tested in accordance with Onshore Oil and Gas Order No. 2 using a conventional test plug. Not a cup or J-packer type. BOP/BOPE system will be tested to 250 psi low, followed by a 10,000 psi pressure test, to be repeated every 30 days.

Choke Diagram Attachment:

Choke_Manifold_Diagram_20171204105731.pdf

BOP Diagram Attachment:

BOP_stack_Diagram_20171204105722.pdf

Well Name: NKATATA FEDERAL

Well Number: 001

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	925	0	925			925	J-55	54.5	STC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4000	0	4000			4000	J-55	40	LTC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
1	INTERMED IATE	12.2 5	9.625	NEW	API	N	4000	5100	4000	5100			1100	НСК -55	40	LTC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
	PRODUCTI ON	8.75	7.0	NEW	API	N	0	7500	0	7500			7500	L-80		OTHER - BTC	1.12 5	1.25	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Assumptions_Nkatata_001_20171228102507.docx

Operator Name: ROSEHILL OPERATING COMPANY LLC	
Well Name: NKATATA FEDERAL	

Well Number: 001

Casing Attachments

-	
Casing ID: 2 String Type: INTERMEDIATE	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Casing_Assumptions_Nkatata_001_20171228102518.docx	
Casing ID: 3 String Type: INTERMEDIATE	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Casing_Assumptions_Nkatata_001_20171228102528.docx	
Casing ID: 4 String Type: PRODUCTION	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Casing_Assumptions_Nkatata_001_20171228102539.docx	

Section 4 - Cement

Well Name: NKATATA FEDERAL

Well Number: 001

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	925	400	1.75	13.5	700	15	Class C	4% bentonite, 6% CD- 32, 5% CaCl2 (TOC @ Surface)
SURFACE	Tail		0	925	300	1.34	14.8	402	15	Class C	0.1 %C-45 econolite
INTERMEDIATE	Lead		0	5100	725	2.3	12.4	1668	15	Class C	5.0% Bentonite + 5.28#/sk salt + 1.25% C-45 econolite + .75% defoamer + .2% C-49 expansive additive (TOC @ Surface)
INTERMEDIATE	Tail				200	1.34	14.8	268	15	Class C	0.1%C-45 econolite + .2% C-49 expansive additive
INTERMEDIATE	Lead		0	5100	725	2.3	12.4	1668	15	Class C	5.0% Bentonite + 5.28#/sk salt + 1.25% C-45 econolite + .75% defoamer + .2% C-49 expansive additive (TOC @ Surface)
INTERMEDIATE	Tail			× · · · ·	200	1.34	14.8	268	15	Class C	0.1%C-45 econolite + .2% C-49 expansive additive
PRODUCTION	Lead		0	7500	550	3.18	11	1749	15	TXI Lightweight	.81#/sk salt + .25% C- 45 + 1.5#/sk phenoseal + 6% STE + .2% Citric Acid + .1% C-19 fluid loss + .25% CSA-1000 fluid loss + 6#/sk kol seal
PRODUCTION	Tail				200	1.25	14.2	250	15	50:50 (Class H:Poz)	.08% CSA-1000 fluid loss + .3% C-47B fluid loss + .2% C-20 retarder

Well Name: NKATATA FEDERAL

Well Number: 001

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2: An electronic pit volume totalizer will be utilized on the circulating system to monitor pit volume, flow rate, pump pressure and stroke rate. See drilling doc for additional details.

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the well site at all times. A kelly cock will be kept in the drill string at all times. A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

Describe the mud monitoring system utilized: An electronic pit volume totalizer (PVT) will be utilized on the circulating system to monitor pit volume, flow rate, pump pressure and stroke rate.

Gel Strength (Ibs/100 sqft) Additional Characteristics Density (Ibs/cu ft) Max Weight (Ibs/gal) Min Weight (Ibs/gal) Viscosity (CP) Bottom Depth Salinity (ppm) Filtration (cc) **Fop Depth** Mud Type Н 0 925 OTHER : fresh 8.6 8.8 gel 925 5100 SALT 10 10.4 SATURATED 5100 7500 8.7 OTHER : Cut 9.2 brine

Circulating Medium Table

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

NA

List of open and cased hole logs run in the well:

CNL/FDC,GR

Coring operation description for the well:

NA

Operator Name: ROSEHILL OPERATING COMPANY LLC **Well Name:** NKATATA FEDERAL

Well Number: 001

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3590

Anticipated Surface Pressure: -148.91

Anticipated Bottom Hole Temperature(F): 140

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? NO

Hydrogen sulfide drilling operations plan:

H2S_Plan_Summary_CC_20171110165855.docx

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Nkatata_SWD_001_drilling_plan_20180103124026.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

HP416_Choke_Hose_Test_Certificate_20171204124450.pdf Well_Control_Plan_20171228104333.docx

Nkatata_SWD__1_wellhead_diagram_20171228104428.pdf

Other Variance attachment:

Additional_Variance_Requests_20171114145159.docx



Rosehill Operating 10k BOP Stack

з.

4.

5.

6.

7.



Rig Floor

Casing Assumptions Worksheet-Nkatata Federal SWD #001,

The below table illustrates the proposed casing design, as well as the minimum acceptable design factors for casing loads per Rosehill Operating Standards.

Csg Type	Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension	DF _{min} Coupling
Surface	17.5"	0 - 925'	13.375	54.5#	J55	STC	1.125	1.25	1.6	1.6
Burrace	17.5		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	51.5"		510	1.125	1.25		1.0
Intermediate	12.25"	0 - 4000'	9.625"	40#	J55	LTC	1.125	1.25	1.6	1.6
Intermediate	12.25	4000'-	9.625"	40#	HCK55	LTC	1.125	1.25	1.6	1.6
		5100'								
Production	8.75"	0'-7500'	7"	26#	L80	BTC	1.125	1.25	1.6	1.6

The actual safety factors specific to the Nkatata #1 well are listed in the table below.

Csg Type	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension	DF _{min} Coupling
Surface	2.8	1.8	9.2	5.5
Intermediate	2.5	2.6	2.2	1.8
Intermediate	2.8	2.6	4.6	5.1
Production	1.5	2.1	2.5	2.1

These design factors are derived based on the following assumptions:

Surface:

Collapse – full evacuation Burst – 1500 psi casing test Tension – buoyant weight of casing at depth + 50,000 lb allowable overpull Coupling– buoyant weight of casing at depth + 50,000 lb allowable overpull

Intermediate(0-4000'):

Collapse – half evacuation with minimum mud weight of 10# Burst – 1500 psi casing test Tension – buoyant weight of casing at depth + 100,000 lb allowable overpull Coupling– buoyant weight of casing at depth + 100,000 lb allowable overpull

Intermediate(4000'-5100'):

Collapse – half evacuation with minimum mud weight of 8.4# Burst – max expected pore pressure minus gas column to surface Tension – buoyant weight of casing at depth + 100,000 lb allowable overpull Coupling - buoyant weight of casing at depth + 100,000 lb allowable overpull

Production

Collapse – full evacuation

Burst - 3500 psi treating pressure

Casing Assumptions Worksheet-Nkatata Federal SWD #001

The below table illustrates the proposed casing design, as well as the minimum acceptable design factors for casing loads per Rosehill Operating Standards.

Csg Type	Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension	DF _{min} Coupling
Surface	17.5"	0 – 925'	13.375 "	54.5#	J55	STC	1.125	1.25	1.6	1.6
Intermediate	12.25"	0 - 4000'	9.625"	40#	J55	LTC	1.125	1.25	1.6	1.6
Intermediate	12.25	4000'- 5100'	9.625"	40#	HCK55	LTC	1.125	1.25	1.6	1.6
Production	8.75"	0'-7500'	7"	26#	L80	BTC	1.125	1.25	1.6	1.6

The actual safety factors specific to the Nkatata #1 well are listed in the table below.

Csg Type	DFmin	DFmin	DFmin	DF _{min}	
	Collapse	Burst	Tension	Coupling	
Surface	2.8	1.8	9.2	5.5	
Intermediate	2.5	2.6	2.2	1.8	
Intermediate	2.8	2.6	4.6	5.1	
Production	1.5	2.1	2.5	2.1	

These design factors are derived based on the following assumptions:

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Collapse – half evacuation with minimum mud weight of 8.4# Burst – max expected pore pressure minus gas column to surface Tension – buoyant weight of casing at depth + 100,000 lb allowable overpull Coupling - buoyant weight of casing at depth + 100,000 lb allowable overpull

Production

Collapse – full evacuation

Burst – 3500 psi treating pressure

Casing Assumptions Worksheet-Nkatata Federal SWD #001

The below table illustrates the proposed casing design, as well as the minimum acceptable design factors for casing loads per Rosehill Operating Standards.

Csg Type	Hole		Csg				DF _{min}	DFmin	DFmin	DF _{min}
	Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension	Coupling
Surface	17.5"	0 – 925'	13.375 "	54.5#	J55	STC	1.125	1.25	1.6	1.6
Intermediate	12.25"	0 - 4000'	9.625"	40#	J55	LTC	1.125	1.25	1.6	1.6
Intermediate	12.25	4000'- 5100'	9.625"	40#	HCK55	LTC	1.125	1.25	1.6	1.6
Production	8.75"	0'-7500'	7"	26#	L80	BTC	1.125	1.25	1.6	1.6

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These design factors are derived based on the following assumptions:

Surface:

Collapse – full evacuation Burst – 1500 psi casing test Tension – buoyant weight of casing at depth + 50,000 lb allowable overpull Coupling– buoyant weight of casing at depth + 50,000 lb allowable overpull

Intermediate(0-4000'):

Collapse – half evacuation with minimum mud weight of 10# Burst – 1500 psi casing test Tension – buoyant weight of casing at depth + 100,000 lb allowable overpull Coupling– buoyant weight of casing at depth + 100,000 lb allowable overpull

Intermediate(4000'-5100'):

Collapse – half evacuation with minimum mud weight of 8.4# Burst – max expected pore pressure minus gas column to surface Tension – buoyant weight of casing at depth + 100,000 lb allowable overpull Coupling - buoyant weight of casing at depth + 100,000 lb allowable overpull

Production

Collapse – full evacuation

Burst – 3500 psi treating pressure

Casing Assumptions Worksheet-Nkatata Federal SWD #001

The below table illustrates the proposed casing design, as well as the minimum acceptable design factors for casing loads per Rosehill Operating Standards.

Csg Type	Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension	DF _{min} Coupling
Surface	17.5"	0 - 925'	13.375 "	54.5#	J55	STC	1.125	1.25	1.6	1.6
Intermediate	12.25"	0 - 4000'	9.625"	40#	J55	LTC	1.125	1.25	1.6	1.6
Intermediate	12.25	4000'- 5100'	9.625"	40#	HCK55	LTC	1.125	1.25	1.6	1.6
Production	8.75"	0'-7500'	7"	26#	L80	BTC	1.125	1.25	1.6	1.6

The actual safety factors specific to the Nkatata #1 well are listed in the table below.

Csg Type	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension	DF _{min} Coupling
Surface	2.8	1.8	9.2	5.5
Intermediate	2.5	2.6	2.2	1.8
Intermediate	2.8	2.6	4.6	5.1
Production	1.5	2.1	2.5	2.1

These design factors are derived based on the following assumptions:

Surface:

Collapse – full evacuation Burst – 1500 psi casing test Tension – buoyant weight of casing at depth + 50,000 lb allowable overpull Coupling– buoyant weight of casing at depth + 50,000 lb allowable overpull

Intermediate(0-4000'):

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Intermediate(4000'-5100'):

Collapse – half evacuation with minimum mud weight of 8.4# Burst – max expected pore pressure minus gas column to surface Tension – buoyant weight of casing at depth + 100,000 lb allowable overpull Coupling - buoyant weight of casing at depth + 100,000 lb allowable overpull

Production

Collapse – full evacuation

Burst – 3500 psi treating pressure



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Industrial Kft.	Page: 22 / 131

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ContiTech

QUA INSPECTION	LITY CON AND TEST		CERT. N	1 °:	378			
PURCHASER:	ContiTech (Dil & Marine C	orp.		P.O. Nº: 45003983			
CONTITECH RUBBER order N	e: 538079	HOSE TYPE:	3" II	D	·	Choke and	I Kill Hose	
HOSE SERIAL Nº:	67095	NOMINAL / AC		GTH:		10,67 m	n / 10,75 m	
W.P. 68,9 MPa 1	0000 psi	T.P. 103,4	MPa	1500)0 psi	Duration:	60	min.
ambient temperature See attachment. (1 page)								
\uparrow 10 mm = 10 Min → 10 mm = 20 MP								
COUPLINGS Ty	be	Serial N°			Quality		Heat N°	
3" coupling wit	n	8949	8948		AIS	SI 4130	A1126U	
4 1/16" 10K API b.w. FI	ange end				AIS	SI 4130	035285	
NOT DESIGN	ED FOR W	ELL TESTIN	G			A	PI Spec 16 C	:
All metal parts are flawless						Temp	erature rate:	"B"
WE CERTIFY THAT THE ABOVI INSPECTED AND PRESSURE T						H THE TERMS	OF THE ORDER	
STATEMENT OF CONFORMITY conditions and specifications of accordance with the referenced s	the above Purch	aser Order and th	hat these ite	ems/e	quipment v	were fabricated	t inspected and tes	sted in
	C			RY/E	U			
Date: 07. March 2014. Quality Control Quality Control					<u></u>			

ContiTech Rubber Industrial Kft. | Budapesti út 10. H-6726 Szeged | H-6701 P.O.Box 152 Szeged, Hungary Phone: +36 62 566 737 | Fax: +36 62 566 738 | e-mall: info@fluid.contilech.hu | Internet: www.contilech-rubber.hu; www.contilech.hu The Court of Csongrád County as Registry Court | Registry Court No: Cg.06-09-002502 | EU VAT No: HU11087209 Bank data Commerzbank Zrt., Budapest | 14220108-26830003 ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE

No: 376, 378, 379, 380

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Hose Data Sheet

CRI Order No.	538079
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500398355
Item No.	1
Hose Type	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
Type of coupling other end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

Rosehill Operating Well Control Plan-Nkatata Federal SWD #001

A. Component and Preventer Compatibility Table

The tables below outline the tubulars and compatible well control devices used in each hole section. A minimum of two barriers for well control will be in place at all times during the drilling of each hole section.

Component	OD	Preventer	RWP
Drillpipe	5"	Upper 4.5-7" VBR	10M
		Lower 4.5-7" VBR	1
HWDP	5"	Upper 4.5-7" VBR	10M
		Upper 4.5-7" VBR	
Drill collars	6.5"	Upper 4.5-7" VBR	10M
		Upper 4.5-7" VBR	
Drill collars	8"	Annular	5M
Mud Motor/NMDC	8"	Annular	5M
Intermediate Casing	9.625"	Annular	5M
ALL	0-13-5/8"	Annular	5M
Open-hole	-	Blind Rams	10M

Intermediate Hole Section (12 ¹/₄"): (<5M MASP)

Production Hole Section (8 3/4"): (<5M MASP)

Component	OD	Preventer	RWP
Drillpipe	5"	Upper 4.5-7" VBR	10M
		Lower 4.5-7" VBR	
HWDP	5"	Upper 4.5-7" VBR	10M
		Lower 4.5-7" VBR	
Drill collars	6.5"	Upper 4.5-7" VBR	10M
		Lower 4.5-7" VBR	
Mud Motor/NMDC	6 3/4"	Upper 4.5-7" VBR	10M
		Lower 4.5-7" VBR	
Production Casing	7"	Upper 4.5-7" VBR	10M
		Lower 4.5-7" VBR	
ALL	0-13-5/8"	Annular	5M
Open-hole	-	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart. HWDP = Heavy Weight Drill Pipe

NMDC = Non magnetic drill collar

B. Well Control Procedures

These steps outline the proper method for shutting the well in during a well control event, based on the current activity.

General Procedure While Drilling

- 1. Space out drill string.
- 2. Shut down pumps and rotary.
- 3. Open HCR.
- 4. Close annular preventer. (choke already closed)
- 5. Confirm shut-in.
- 6. Notify tool pusher/company representative.
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan.
- 9. If pressure has built or is anticipated during the kill to reach 3500 psi, confirm spacing and swap to the upper pipe ram.

General Procedure While Tripping

- 1. Space out (get closest available tool joint to floor).
- 2. Stab full opening safety valve and close same.
- 3. Open HCR.
- 4. Close annular preventer. (choke already closed.)
- 5. Confirm shut-in.
- 6. Notify tool pusher/company representative.
- 7. Read and record the following
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan.
 - e. If pressure has built or is anticipated during the kill to reach 3500 psi, confirm spacing and swap to the upper pipe ram.

General Procedure While Running Casing

- 1. Space out (get closest available tool joint to floor).
- 2. Stab crossover and safety valve and close same.
- 3. Open HCR
- 4. Close annular preventer. (choke already closed)
- 5. Confirm shut-in.
- 6. Notify tool pusher/company representative.
- 7. Read and record the following:
 - a. SIDPP and SICP

- b. Pit gain
- c. Time
- d. Regroup and identify forward plan.
- e. Only if running 7" casing- If pressure has built or is anticipated during the
- kill to reach 3500 psi, confirm spacing and swap to the upper pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Open HCR
- 2. Shut-in with blind rams. (choke already closed)
- 3. Confirm shut-in
- 4. Notify tool pusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. **PRIOR** to pulling last joint of drill pipe thru the stack.
 - a. Perform flow check, if flowing:
 - b. Stab full opening safety valve and close same.
 - c. Open HCR.
 - d. Space out drill string with tool joint just beneath the upper pipe ram.
 - e. Shut-in using upper pipe ram. (choke already closed)
 - f. Confirm shut-in.
 - g. Notify tool pusher/company representative.
 - h. Read and record the following:
 - h.i. SIDPP and SICP
 - h.ii. Pit gain
 - h.iii. Time
 - h.iv. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Stab crossover and full opening safety valve and close
 - b. Space out drill string with upset just beneath the compatible pipe ram.
 - c. Open HCR
 - d. Shut-in using compatible pipe ram. (choke already closed)
 - e. Confirm shut-in.
 - f. Notify tool pusher/company representative
 - g. Read and record the following:
 - g.i. SIDPP and SICP
 - g.ii. Pit gain
 - g.iii. Time
 - g.iv. Regroup and identify forward plan

- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - b. If impossible to pick up high enough to pull the string clear of the stack.
 - c. Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close.
 - d. Space out drill string with tool joint just beneath the upper pipe ram.
 - e. Open HCR
 - f. Shut-in using upper pipe ram. (choke already closed).
 - g. Confirm shut-in.
 - h. Notify tool pusher/company representative.
 - i. Read and record the following:
 - i.i. SIDPP and SICP
 - i.ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



Additional Variance Requests-Rosehill Talco Lease

Tatanka Federal Well #001H

- 1. Casing
 - a. Variance is requested to wave the centralizer requirements for the 10.75" semi flush casing in the 12.25" hole size.
- 2. Pressure Control
 - a. Variance is requested to use a co-flex line between the Bop and choke manifold, instead of using a 4" Od steel line
 - b. Variance is also requested to use a 5,000 psi WP annular preventer

TAFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400025877

Operator Name: ROSEHILL OPERATING COMPANY LLC

Well Name: NKATATA FEDERAL

Well Type: INJECTION - DISPOSAL

Submission Date: 01/11/2018

Well Number: 001 Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Existing_Roads_for_SUPO_20171205131528.pdf

Existing Road Purpose: ACCESS

ROW ID(s)

ID:

Do the existing roads need to be improved? YES Existing Road Improvement Description: Grading Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

[/]Will new roads be needed? NO

Row(s) Exist? NO

SUPO Data Report

Highlighted data reflects the most

recent changes

Show Final Text

Section 3 - Location of Existing Wells

Existing Wells Map? NO

Attach Well map:

Well Name: NKATATA FEDERAL

Well Number: 001

Existing Wells description: One capped well is on an existing pad in the middle of the lease. The pad will be reused as the site of the compressor. Top portion of the existing pad that is not being used will be reclaimed.

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

Production Facilities Diagram 20171128155135.docx

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING, Water source type: OTHER INTERMEDIATE/PRODUCTION CASING, INTERMEDIATE/PRODUCTION CASING, INTERMEDIATE/PRODUCTION CASING, STIMULATION, STIMULATION, STIMULATION, STIMULATION, SURFACE CASING, SURFACE CASING, SURFACE CASING, SURFACE CASING Describe type: Lined mega pit holding ground water

Source latitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: PIPELINE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 400000

Source volume (gal): 16800000

Water source use type: INTERMEDIATE/PRODUCTION CASING, STIMULATION Describe type: Lined mega pit holding ground water

Source latitude:

Source datum:

Water source permit type:

Source land ownership:

Water source transport method:

Source transportation land ownership:

Water source volume (barrels): 400000

Source longitude:

Source volume (acre-feet): 51.55724

Water source type: OTHER

Source longitude:

Source volume (acre-feet): 51.55724

Vell Name: NKATATA FEDERAL Well Num	iber: 001
Source volume (gal): 16800000	
Water source use type: INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING Describe type: lined pit	Water source type: OTHER
Source latitude:	Source longitude:
Source datum:	
Water source permit type: PRIVATE CONTRACT	
Source land ownership: PRIVATE	
Water source transport method: PIPELINE	
Source transportation land ownership: PRIVATE	
Water source volume (barrels): 400000	Source volume (acre-feet): 51.55724
Source volume (gal): 16800000	
Water source use type: INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING Describe type:	Water source type: OTHER
Source latitude:	Source longitude:
Source datum:	
Water source permit type: PRIVATE CONTRACT	
Source land ownership:	
Water source transport method:	
Source transportation land ownership:	
Water source volume (barrels): 400000	Source volume (acre-feet): 51.55724
Source volume (gal): 16800000	
Water source use type: INTERMEDIATE/PRÓDUCTION CASING, STIMULATION, SURFACE CASING Describe type: Lined Mega pit holding ground water	Water source type: OTHER
Source latitude:	Source longitude:
Source datum:	
Water source permit type: PRIVATE CONTRACT	
Source land ownership: PRIVATE	
Water source transport method: PIPELINE	
Source transportation land ownership: PRIVATE	
Water source volume (barrels): 400000	Source volume (acre-feet): 51.55724
Source volume (gal): 16800000	

Well Name: NKATATA FEDERAL

Well Number: 001

Water source and transportation map:

Tatanka_Facilities_Plan_1_10_2018_20180111111522.pdf

Water source comments: Operator will use established or constructed oil and gas roads to transport water to well site. Operator will try to utilize the identified access route in the surface use plan. New water well? NO

New Water Well Info

Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of	aquifer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside	diameter (in.):
New water well casing?	Used casing sourc	e:
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth (ft.):
Well Production type:	Completion Method	d:
Water well additional information:		
State appropriation permit:		ς.
Additional information attachment:		

Section 6 - Construction Materials

Construction Materials description: Clean caliche from BLM or third party source will be used **Construction Materials source location attachment:**

Section 7 - Methods for Handling Waste

Waste type: GARBAGE Waste content description: Garbage and trash produced during drilling and competion operations Amount of waste: Waste disposal frequency : Weekly Safe containment description: Collected in trash containers Safe containmant attachment:

Well Name: NKATATA FEDERAL

Well Number: 001

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: OTHER FACILITY

Disposal type description:

Disposal location description: Pecos City Sanitary Landfill

Waste type: SEWAGE

Waste content description: Human waste and grey water

Amount of waste:

Waste disposal frequency : Weekly

Safe containment description: Above-ground poly tanks provided by trailerhouse rental company

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY Disposal type description:

Disposal location description: Carlsbad City Landfill

Waste type: PRODUCED WATER

Waste content description: Produced water from well during drilling and completion operations

Amount of waste: 3000 barrels

Waste disposal frequency : Daily

Safe containment description: Stored in water tanks on lease before injection

Safe containmant attachment:

Waste disposal type: ON-LEASE INJECTION Disposal location ownership: FEDERAL

Disposal type description:

Disposal location description: On-lease injection well (SWD)

Waste type: DRILLING

Waste content description: Drilled cuttings

Amount of waste: 109066 gallons

Waste disposal frequency : Weekly

Safe containment description: Stored in steel tanks until taken to disposal location

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY Disposal type description:

Disposal location description: Sundance Services near Eunice, NM (state certified)

Well Name: NKATATA FEDERAL

Well Number: 001

Waste type: COMPLETIONS/STIMULATION

Waste content description: Non-hazardous waste mud/cement from drilling process

Amount of waste: 10000 barrels

Waste disposal frequency : Weekly

Safe containment description: 500 bbl frac tanks

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL **Disposal location ownership: PRIVATE** FACILITY **Disposal type description:**

Disposal location description: Sundance Services near Eunice, NM

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Drill cuttings will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility. Cuttings area length (ft.) Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Well Name: NKATATA FEDERAL

Well Number: 001

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Nkatata_SWD__1_location_schematic_20171228105439.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name:

Multiple Well Pad Number:

Recontouring attachment:

Drainage/Erosion control construction: Reconstructed roads, on surface under the jurisdiction of the Bureau of Land Management, will be constructed as outlined in the BLM "Gold Book" and to meet the standards of the anticipated traffic flow and all anticipated weather requirements as needed. Construction will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-constructed and safe road. Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.

Drainage/Erosion control reclamation: The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled. All disturbed areas, including pads and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding area. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.

Well pad proposed disturbance (acres): 5.7	Well pad interim reclamation (acres): 2.3	Well pad long term disturbance (acres): 3.4
Road proposed disturbance (acres): 4.8	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance	Powerline interim reclamation (acres):	Powerline long term disturbance (acres): 0
(acres): 0 Pipeline proposed disturbance	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance
(acres): 0 Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	(acres): 0 Other long term disturbance (acres): 0
Total proposed disturbance: 10.5	Total interim reclamation: 2.3	Total long term disturbance: 3.4

Disturbance Comments: Prior to final reclamation procedures, the well pad, road, and surrounding area will be cleared of material, trash, and equipment. All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.

Reconstruction method: All disturbed areas, including pads and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. After all the disturbed areas have been properly prepared, the areas will be seeded with the proper BLM seed mixture, free of noxious

Well Name: NKATATA FEDERAL

Well Number: 001

weeds. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites. **Topsoil redistribution:** Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Soil treatment: None

Existing Vegetation at the well pad:

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table	
Seed type:	Seed source:
Seed name:	
Source name:	Source address:
Source phone:	
Seed cultivar:	

Page 8 of 11

Well Name: NKATATA FEDERAL

Well Number: 001

Total pounds/Acre:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary
Seed Type Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep: After all the disturbed areas have been properly prepared, the areas will be seeded with the proper BLM seed mixture, free of noxious weeds. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

- Seed BMP:
- Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: To BLM standards

Weed treatment plan attachment:

Monitoring plan description: To BLM standards

Monitoring plan attachment:

Success standards: To BLM standards

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT, BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

Well Name: NKATATA FEDERAL

Well Number: 001

	<u> </u>
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Disturbance type: EXISTING ACCESS ROAD	
Describe:	
Surface Owner: BUREAU OF LAND MANAGE	EMENT, PRIVATE OWNERSHIP, STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: CARLSBAD, NM

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: ROSEHILL OPERATING COMPANY LLC Well Name: NKATATA FEDERAL

Well Number: 001

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Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

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ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: 11/2/17 with Jesse Bassett- Tatanka 001H, 002H, 003H, 004H, 005H and 006H; Nkatata 001

Other SUPO Attachment

NKATATA_FEDERAL_SWD__001_20171227155722.docx 30_ROW_gas_line_running_N_from_compressor_20180321115951.pdf 55_ROW_Signed_02_24_18_20180321115951.pdf 150_Easement_Signed_12_22_17_20180321115952.pdf Compressor_Pad_Signed_12_24_17_20180321115953.pdf Sec_11_CTB_Signed_02_20_18_20180321115955.pdf Rosehill_Section_11_Easements_Signed_02_15_18_20180321115954.pdf Sec_11_Easement_Signed_02_20_18_20180321115955.pdf Section_12_Frac_Pond_Signed_11_20_17_20180321115956.pdf

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VAFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

PWD Data Report

LEGAL DESCRIPTION

LEGAL DESCRIPTION of a proposed 15.50 Acre lease site located in Section 12 and 13, T-26-S, R-35-E, N.M.P.M., Lea County, New Mexico, and being more particularly described as follows:

BEGINNING at the Northwest corner of this tract, which bears N 72'09'38" E, a distance of 2,409.3 feet from a USGLO Brass Cap found for the Southwest corner of said Section 12;

THENCE N 89°32'04" E, a distance of 900.0 feet to the Northeast corner of this tract;

THENCE S 00°27'56" E, at a distance of 715.7 feet pass the South line of said Section 12 and the North line of said Section 13, continuing on for a total distance of 750.0 feet to the Southeast corner of this tract, which point bears S 88'31'38" W, a distance of 2,087.0 feet from a USGLO Brass cap found for the Southeast corner of said Section 12;

THENCE S 89"32'04" W, a distance of 900.0 feet to the Southwest corner of this tract;

THENCE N 57°00'54" W, at a distance of 33.2 pass the North line of said Section 13 and the South line of said Section 12, continuing on for a total distance of 750.0 feet to the POINT OF BEGINNING. Subject lease site contains a total of 15.50 acres of land.

> Plat See Page 1 of 2

NOTE

1) Bearings shown hereon are transverse Mercator Grid and conform to the New Mexico Coordinate System "New Mexico East Zone". North American Datum of 1983. Distances are grid values

2) Öwnership shown per NM OCD Oil and Gas Map, New Mexico Oil Conservation Division.



ROSEHILL OPER	ATING COMPANY, LLC
LEA So Township 26 Sou	50 ACRE SE SITE action 12 & 13 ath. Range 35 East, N.M.P.M. bunty. New Mexico
Scale: 1"= 1000'	W.O.: 2017-0805

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location: ONLEASE

PWD surface owner: BLM

Injection PWD discharge volume (bbl/day):

Injection well mineral owner: FED

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type: NEW Injection well number: 001H Assigned injection well API number? Injection well new surface disturbance (acres): Minerals protection information: Mineral protection attachment: Underground Injection Control (UIC) Permit? UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Surface discharge PWD discharge volume (bbl/day): Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment: Surface Discharge site facilities information: Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment: Injection well name: Nkatata Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

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Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001484

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Bond Info Data Report

16/2018

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: